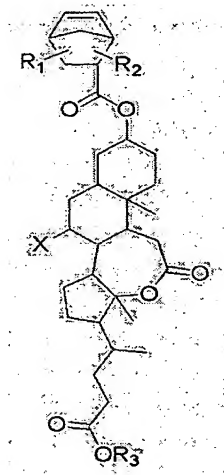


Amendments to the Claims

The listing of claims will replace all prior versions and listings of claims in the application.

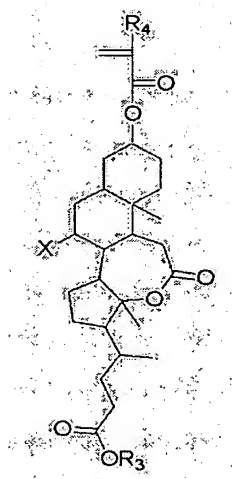
1. (currently amended) A norbornene monomer represented by Formula (I):



(I)

wherein R_1 and R_2 are each independently hydrogen, C_{1-4} alkyl, C_{1-4} alkoxy or phenyl; R_3 is hydrogen, C_{1-20} alkyl, C_{1-20} alkoxy, phenyl, C_{1-20} hydroxyalkyl, C_{1-20} alkoxyalkyl, C_{6-30} alicyclic hydrocarbon or C_{6-30} aliphatic lactone; and X is hydrogen or hydroxyl.

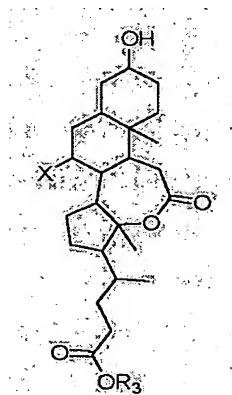
2. (currently amended) An acrylate or methacrylate monomer represented by Formula (II):



(II)

wherein ~~R₁, R₂, and R₄ are each~~ is independently hydrogen, C₁₋₄ alkyl, C₁₋₄ alkoxy or phenyl; R₃ is hydrogen, C₁₋₂₀ alkyl, C₁₋₂₀ alkoxy, phenyl, C₁₋₂₀ hydroxyalkyl, C₁₋₂₀ alkoxyalkyl, C₆₋₃₀ alicyclic hydrocarbon or C₆₋₃₀ aliphatic lactone; and X is hydrogen or hydroxyl.

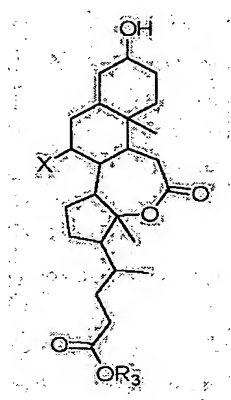
3. (original) An alcoholic compound represented by Formula (III):



(III)

wherein R₃ is hydrogen, C₁₋₂₀ alkyl, C₁₋₂₀ alkoxy, phenyl, C₁₋₂₀ hydroxyalkyl, C₁₋₂₀ alkoxyalkyl, C₆₋₃₀ alicyclic hydrocarbon or C₆₋₃₀ aliphatic lactone; and X is hydrogen or hydroxyl.

4. (currently amended) A method of preparing the monomer of Formula (I) as defined in claim 1 by reacting the alcoholic compound represented by Formula (III):

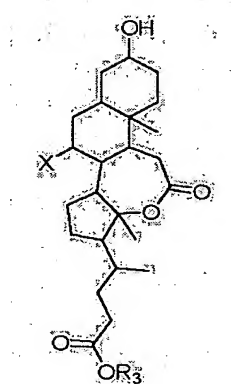


(III)

wherein R₃ is hydrogen, C₁₋₂₀ alkyl, C₁₋₂₀ alkoxy, phenyl, C₁₋₂₀ hydroxyalkyl, C₁₋₂₀ alkoxyalkyl, C₆₋₃₀ alicyclic hydrocarbon or C₆₋₃₀ aliphatic lactone; and X is hydrogen or hydroxyl,

with a compound ~~selected from 2-chlorocarbonyl-5-norbornene, acryloyl chloride and methacryloyl chloride.~~

5. (currently amended) A method of preparing the monomer of Formula (II) as defined in claim 2 by reacting the alcoholic compound represented by Formula (III):

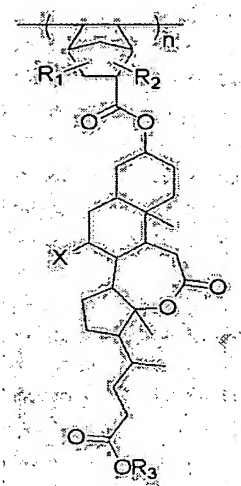


(III)

wherein R₃ is hydrogen, C₁₋₂₀ alkyl, C₁₋₂₀ alkoxy, phenyl, C₁₋₂₀ hydroxyalkyl, C₁₋₂₀ alkoxyalkyl, C₆₋₃₀ alicyclic hydrocarbon or C₆₋₃₀ aliphatic lactone; and X is hydrogen or hydroxyl,

with a compound selected from ~~2-chlorocarbonyl-5-norbornene~~, acryloyl chloride and methacryloyl chloride.

6. (currently amended) A monomer or polymer represented by Formula (IV):

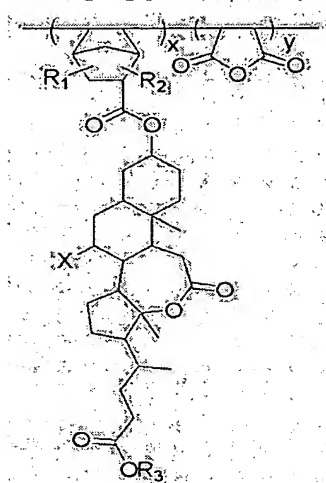


(IV)

wherein R₁ and R₂ are each independently hydrogen, C₁₋₄ alkyl, C₁₋₄ alkoxy or phenyl; R₃ is hydrogen, C₁₋₂₀ alkyl, C₁₋₂₀ alkoxy, phenyl, C₁₋₂₀ hydroxyalkyl, C₁₋₂₀ alkoxyalkyl, C₆₋₃₀ alicyclic hydrocarbon or C₆₋₃₀ aliphatic lactone; X is hydrogen or a hydroxyl; and n represents the degree of polymerization and is an integer from 1 to 1000.

7. (original) A photoresist composition comprising the polymer of Formula (IV) in claim 6, and a photoacid generator.

8. (currently amended) A polymer represented by Formula (V):

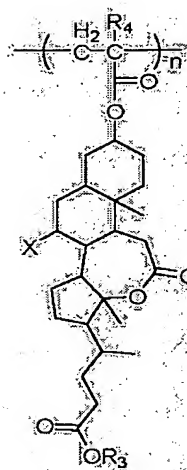


(V)

wherein R₁[[,]] and R₂ [[and R₄]] are each independently hydrogen, C₁₋₄ alkyl, C₁₋₄ alkoxy or phenyl; R₃ is hydrogen, C₁₋₂₀ alkyl, C₁₋₂₀ alkoxy, phenyl, C₁₋₂₀ hydroxyalkyl, C₁₋₂₀ alkoxyalkyl, C₆₋₃₀ alicyclic hydrocarbon or C₆₋₃₀ aliphatic lactone; X is hydrogen or hydroxyl; and x and y each represents a molar ratio of each monomer unit and the sum x + y is 1.

9. (original) A photoresist composition comprising the polymer of Formula (V) as defined in claim 8, and a photoacid generator.

10. (currently amended) A monomer or polymer represented by Formula (VI):



(VI)

wherein R₁, R₂ and R₄ [[are]] is each independently hydrogen, C₁₋₄ alkyl, C₁₋₄ alkoxy or phenyl; R₃ is hydrogen, C₁₋₂₀ alkyl, C₁₋₂₀ alkoxy, phenyl, C₁₋₂₀ hydroxyalkyl, C₁₋₂₀ alkoxyalkyl, C₆₋₃₀ alicyclic hydrocarbon or C₆₋₃₀ aliphatic lactone; X is hydrogen or hydroxyl; and n represents the degree of polymerization and is an integer from 1 to 1000.

11. (original) A photoresist composition comprising the polymer of Formula (VI) as defined in claim 10, and a photoacid generator.

12. (original) A method of preparing a photoresist composition, comprising:
homopolymerizing the norbornene monomer of Formula (I) as defined in claim 1, or copolymerizing the monomer of Formula (I) and maleic anhydride, to prepare a polymer; and
dissolving the polymer and a photoacid generator in a solvent.

13. (original) A method of preparing a photoresist composition, comprising:
homopolymerizing the monomer of Formula (II) as defined in claim 2, or copolymerizing the monomer of Formula (II) and maleic anhydride, to prepare a polymer; and
dissolving the polymer and a photoacid generator in a solvent.

14. (original) A method of preparing a photoresist composition, comprising:
mixing the monomer of Formula (II) as defined in claim 2, and an acrylate or methacrylate monomer containing an alicyclic hydrocarbon or aliphatic lactone group, to prepare a polymer; and
dissolving the polymer and a photoacid generator in a solvent.

15. (original) The photoresist composition of claim 7, wherein the photoacid generator is added in an amount of about 0.01% to about 20% by weight, based on the weight of the polymer.

16. (original) The photoresist composition of claim 9, wherein the photoacid generator is added in an amount of about 0.01% to about 20% by weight, based on the weight of the polymer.

17. (original) The photoresist composition of claim 11, wherein the photoacid generator is added in an amount of about 0.01% to about 20% by weight, based on the weight of the polymer.

18. (original) The method of claim 12, wherein the solvent is used in an amount of about 10% to about 1000% by weight, based on the weight of the polymer.

19. (original) The method of claim 13, wherein the solvent is used in an amount of about 10% to about 1000% by weight, based on the weight of the polymer.

20. (original) The method of claim 14, wherein the solvent is used in an amount of about 10% to about 1000% by weight, based on the weight of the polymer.

21. (original) A method of forming photoresist patterns, comprising:
(a) applying the photoresist composition of claim 7 on a substrate, to form a photoresist film;
(b) exposing the photoresist film to light;

- (c) baking the exposed photoresist film; and
 - (d) developing the baked photoresist film to form desired patterns.
22. (original) A method of forming photoresist patterns, comprising:
- (a) applying the photoresist composition of claim 9 on a substrate, to form a photoresist film;
 - (b) exposing the photoresist film to light;
 - (c) baking the exposed photoresist film; and
 - (d) developing the baked photoresist film to form desired patterns.
23. (original) A method of forming photoresist patterns, comprising:
- (a) applying the photoresist composition of claim 11 on a substrate, to form a photoresist film;
 - (b) exposing the photoresist film to light;
 - (c) baking the exposed photoresist film; and
 - (d) developing the baked photoresist film to form desired patterns
24. (original) The method of claim 21, wherein the baking in (c) is carried out at about 60 °C to about 140°C.
25. (original) The method of claim 22, wherein the baking in (c) is carried out at about 60 °C to about 140°C.
26. (original) The method of claim 23, wherein the baking in (c) is carried out at about 60 °C to about 140°C.
27. (original) The method of claim 21, wherein the exposing in (b) is carried out by using a far ultraviolet, an F₂ excimer laser, an extreme UV, an e-beam, an X-ray or an ion beam light source.

28. (original) The method of claim 22, wherein the exposing in (b) is carried out by using a far ultraviolet, an F₂ excimer laser, an extreme UV, an e-beam, an X-ray or an ion beam light source.

29. (original) The method of claim 23, wherein the exposing in (b) is carried out by using a far ultraviolet, an F₂ excimer laser, an extreme UV, an e-beam, an X-ray or an ion beam light source.

30. (canceled)

31. (original) A semiconductor device fabricated by the method of claim 22.

32. (canceled)